AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): A method for classifying an item, the item being a product and not being a document, the item-having a plurality of attributes, wherein an attribute is not a word within a document, each attribute being a descriptor of a product, and each attribute having a value, the method comprising:

selecting an item to be classified;

selecting an attribute of the item from the plurality of attributes, each of the plurality of attributes being defined for the item prior to the selecting of the item;

comparing the value of the attribute of the item to a set of possible attribute values, the possible attribute values being associated respectively, with item classifications;

selecting at least one item classification for the item based on the comparison; and determining a confidence score for each selected item classification for the item.

Claim 2 (original): The method of Claim 1 wherein the set of possible attribute values comprises an engineered knowledge base of classifications, each classification associated with at least one attribute and each attribute associated with at least one attribute value.

Claim 3 (original): The method of Claim 1, further comprising:

selecting a second attribute of the item if one selected item classification does not have a sufficiently high confidence score;

comparing the value of the second attribute of the item to a set of possible second attribute values, the possible second attribute values being associated, respectively, with item classifications;

selecting at least one item classification for the item based on the second comparison; and determining a confidence score for each selected item classification of the second comparison.

Claim 4 (original): The method of Claim 1, further comprising:

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comparing the value of the attribute of the item to a second set of possible attribute values, the possible attribute values being associated respectively, with the item classifications; selecting at least one item classification for the item based on the second comparison; and determining a confidence score for each selected item classification for the item.

Claim 5 (original): The method of Claim 3 wherein each set of possible values comprises an engineered knowledge base, the engineered knowledge bases comprising at least one of a primary engineered knowledge base of key item attribute values, an engineered knowledge base of a classification schema, and an engineered knowledge base of an alternated classification system.

Claim 6 (previously presented): The method of claim 5 wherein the engineered knowledge base of a classification schema contains a plurality of item classifications mapped to a second classification schema.

Claim 7 (original): The method of Claim 1 wherein comparing the value of the attribute and selecting at least one item classification are performed independent of a subject matter of the item classifications, the subject matters including one or more of electronic, office products, and medical supplies.

Claim 8 (original): The method of Claim 1 wherein comparing the value of the attribute and selecting at least one item classification are performed independent of a language of the item and independent of a language of the set of possible attribute values.

Claim 9 (original): The method of Claim 1 wherein the attribute is a part number of the item.

Claim10 (original): The method of Claim 1 wherein the attribute is a description of the item.

Claim 11 (original): The method of Claim 1 wherein comparing the value of the attribute comprises performing a search for a matching value among the set of possible attribute values.

Claim 12 (original): The method of Claim 1 wherein comparing the value of the attribute comprises performing a search for a value among the set of possible attribute values that is within a range.

Claim 13 (original): The method of Claim 1 wherein determining a confidence score comprises determining a percentage of items in an item classification that contain an attribute value found in the respective comparison and assigning a higher confidence score for attribute values contained in a higher percentage of items in the respective item classification.

Claim 14 (original): The method of Claim 1 wherein determining a confidence score comprises determining a degree of similarity between the value of the attribute and the corresponding attribute value of the selected item classification.

Claim 15 (original): The method of Claim 1 further comprising presenting the item and the selected item classifications from the comparison to a user.

Claim 16 (original): The method of Claim 1 wherein the confidence scores are presented to the user in association with the corresponding item classifications.

Claim 17 (original): The method of Claim 1 further comprising analyzing the attribute value of the item against a stop list and excluding any stop list words from the comparison.

Claim 18 (original): The method of Claim 1 further comprising:

presenting the selected item classifications to a user; receiving a designation from the user of at least one selected item classification; and classifying the item in the designated item classifications.

Claim 19 (original): The method of Claim 1 further comprising comparing confidence scores for all selected item classifications and classifying the item in at least one of the selected item classifications based on the confidence score comparison.

Claim 20 (original): The method of Claim 1 further comprising automatically classifying an item if the confidence score is above a threshold and presenting the selected item classifications to a user if the confidence score is below the threshold.

Claim 21 (original): The method of Claim 1 wherein comparing the value of the first attribute comprises successively executing a plurality of searches, each successive search having more general criteria and wherein determining a confidence score comprises assigning a lower confidence score to the results of each successive search.

Claim 22 (original): The method of Claim 1, further comprising: selecting a classification for the item; supplementing the set of possible attribute values with attribute values of the item.

Claim 23 (original): The method of Claim 22 wherein the set of possible attribute values initially contains no attribute values, the method further comprising repeating selecting an attribute, comparing the value of the attribute, selecting at least one item classification, selecting a classification, and supplementing the set of possible attribute values for a plurality of items so that as each item is classified, the set of possible attribute values is increased.

Claim 24 (currently amended): A method for classifying an item, the item being a product and not being a document, the item being associated with a plurality of descriptive terms, each descriptive term not being a word within a document, the method comprising:

selecting an item to be classified, the plurality of descriptive terms defined for the item prior to the selecting of the item;

searching a reference list of descriptive terms to find descriptive terms corresponding to the descriptive terms associated with the item, the reference list of descriptive terms including at least one item classification for each descriptive term and a confidence score for each item classification of each descriptive term;

compiling the item classifications and associated confidence scores for each found corresponding descriptive term in the reference list to determine a confidence score for each item classification; and

ranking the item classifications for each found descriptive term using the compiled confidence scores.

Claim 25 (original): The method of Claim 24 wherein searching the reference list comprises successively executing a plurality of searches, each successive search having more general criteria and wherein compiling the confidence scores comprises adjusting the confidence scores so that a score is lowered for each successive search in which the corresponding descriptive term is first found.

Claim 26 (original): The method of Claim 24 further comprising presenting the item classifications and rankings to a user.

Claim 27 (original): The method of Claim 24 further comprising:

receiving a designation of at least one item classification from the an classifying the item in the designated classifications.

Claim 28 (original): The method of Claim 24 further comprising automatically classifying an item if the confidence score is above a threshold and presenting the selected item classifications to the user if the confidence score is below the threshold.

Claim 29 (original): The method of Claim 24 wherein the descriptive terms in the reference list are associated with possible attributes of the item and wherein the confidence score depends upon the attribute with which the descriptive term is associated.

Claim 30 (original): The method of Claim 24 wherein searching comprises searching for descriptive terms associated with the same attribute as the attribute of the item associated with the searched descriptive term.

Claim 31 (original): The method of Claim 24, further comprising: classifying the item in at least one of the item classifications for a found descriptive term; and

supplementing the reference list with descriptive terms associated with the item.

Claim 32 (original): The method of Claim 24 wherein the reference list comprises an engineered knowledge base, the engineered knowledge base comprising at least one of a primary engineered knowledge base of key item attribute values, an engineered knowledge base of a classification schema, and an engineered knowledge base of an alternated classification system.

Claim 33 (original): The method of claim 24 wherein the engineered knowledge base of a classification schema contains a plurality of item classifications mapped to a second classification schema.

Claim 34 (currently amended): A machine-readable medium having stored thereon data representing sequences of instructions which, when executed by a machine, cause the machine to perform operations comprising:

selecting an item to be classified;

selecting an attribute of-an_the item, the item having a plurality of attributes, each attribute having a value and a predetermined weighting factor associated therewith, the plurality of attributes being defined prior to the selecting of the item;

comparing the value of the selected attribute of the item to a set of possible attribute values, the possible attribute values being associated respectively, with item classifications; selecting at least one item classification for the item based on the comparison; and determining a confidence score for each selected item classification for the item based on at least the weighting factor associated with the selected attribute.

Claim 35 (original): The medium of Claim 34, further comprising instructions which, when executed by the machine, cause the machine to perform further operations comprising:

selecting a second attribute of the item if one selected item classification does not have a sufficiently high confidence score;

comparing the value of the second attribute of the item to a set of possible second attribute values, the possible second attribute values being associated, respectively, with item classifications;

selecting at least one item classification for the item based on the second comparison; and determining a confidence score for each selected item classification of the second comparison.

Claim 36 (original): The medium of Claim 34, further comprising instructions which, when executed by the machine, cause the machine to perform further operations comprising: comparing the value of the attribute of the item to a second set of possible attribute values, the possible attribute values being associated respectively, with the item classifications; selecting at least one item classification for the item based on the second comparison; and determining a confidence score for each selected item classification for the item.

Claim 37 (currently amended): An apparatus for classifying an item, the item having a plurality of attributes, each attribute having a value and a predetermined weighting factor associated therewith, the apparatus comprising:

a classification knowledge database containing a plurality of values, each associated with at least one category; and

a search engine to select an attribute of the item, to compare the value of the selected attribute of the item to a set of possible attribute values of the classification knowledge database, to select at least one item classification for the item based on the comparison, and to determine a confidence score for each selected item classification for the item based on at least the weighting factor associated with the selected attribute, wherein the attributes of the item are defined prior to selecting the item for classification.

Claim 38 (original): The apparatus of Claim 37 wherein the search engine is further to select a second attribute of the item if one selected item classification does not have a sufficiently high confidence score, to compare the value of the second attribute of the item to a set of possible second attribute values, of the classification knowledge database, to select at least one item classification for the item based on the second comparison, and to determine a confidence score for each selected item classification of the second comparison.

Claim 39 (original): The apparatus of Claim 37 wherein the search engine is further to compare the value of the attribute of the item to a second set of possible attribute values, the possible attribute values being associated, respectively, with the item classifications, to select at least one item classification for the item based on the second comparison, and to determine a confidence score for each selected item classification for the item.